

ABSTRACT OF THE DISCLOSURE

A composite reflecting surface for a linear LED array incorporates a truncated circular parabolic reflector surrounding each LED and a trough axially above the circular parabolic reflectors defined between
5 parallel longitudinal reflecting surfaces. The short circular parabolic reflectors collimate wide angle light from the LED into a direction parallel to the LED optical axis. The longitudinal reflecting surfaces are linear parabolic surfaces altered to improve the vertical spread of the light radiation pattern. Longitudinal convex ribs project inwardly from the
10 basic linear parabolic shape. The convex shape of the ribs "sprays" the light incident upon it in a vertically spread pattern. The composite reflecting surface makes use of light from a linear array of LEDs that would otherwise be wasted.